

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-088701

(43)Date of publication of application : 26.05.1983

(51)Int.Cl.

G02B 5/14
// G02B 1/04

(21)Application number : 56-187970

(71)Applicant : MITSUBISHI RAYON CO LTD

(22)Date of filing : 24.11.1981

(72)Inventor : YANAGASE AKIRA
YAMAMOTO TAKASHI
HASEGAWA AKIRA
SHINDO MIZUO

(54) MANUFACTURE OF OPTICAL FIBER SUPERIOR IN LIGHT TRANSMITTANCE

(57)Abstract:

PURPOSE: To enhance light transmittance and resistance to weather and chemicals, by polymerizing methyl methacrylate in specified conditions to prepare a core component, and separating impurities in steps of production of a copolymer and spinning.

CONSTITUTION: A mixture of methyl methacrylate monomer, a radical polymn. initiator, a chain transfer agent, etc. is continuously fed into a one reaction vessel. An aq. medium contg. this mixture is stirred and mixed uniformly at 90W 130°C, and polymerized to give a product contg. 30W80% polymer. A volatile matter separation step and a spinning step are controlled within 150W300°C in order to remove impurities. For example, said polymer is spun with an extruder kept at 200°C, and this fiber is coated with polytrifluoromethyl methacrylate contg. 20% F by extrusion coating, thus permitting the obtained optical fiber to contain no impurity and to be enhanced in light transmittance.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

BEST AVAILABLE COPY